## PRESSURE SENSITIVE SCROLLBAR FEATURE

Patent Number:

WO9718508

Publication date:

1997-05-22

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Requested Patent:

EP0861462 (WO9718508) <</p>

Application Number: WO1996US17862 19961106

Priority Number(s):

US19950558114 19951113

IPC Classification:

G06F3/033

EC Classification:

G06F3/033D2, G06F3/033A1S2

Equivalents:

CN1202254, JP11511580T

Cited Documents:

EP0394614

## **Abstract**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. Pressure information is used to modify the scrolling speed.

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